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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

04/03/2009

Locke Lord Bissell & Liddell LLP Attn: IP Docketing Three World Financial Center New York, NY 10281-2101

EXAMINER				
HO, HUY C				
ART UNIT	PAPER NUMBER			
2415				

DATE MAILED: 04/03/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,470	09/16/2003	Jan-Erik Ekberg	4208-4148	9617

TITLE OF INVENTION: MECHANISM FOR IMPROVING CONNECTION CONTROL IN PEER-TO-PEER AD-HOC NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including debelow or directed off tions.	ng the Patent, advance onerwise in Block 1, by (rders and notification o a) specifying a new cor	f maintenance fees respondence address	will be s; and/o	mailed to the current r (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of th Fee(s) Transmittal. This certificate cannot be used for any other accompanyin papers. Each additional paper, such as an assignment or formal drawing, mushave its own certificate of mailing or transmission.			
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Locke Lord Bissell & Liddell LLP Attn: IP Docketing Three World Financial Center			I S au tr	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
New York, NY	10281-2101						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/662,470	09/16/2003	•	Jan-Erik Ekberg		•	4208-4148	9617
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/06/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
HO, H	IUY C	2617	370-338000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			or agents OR, alternation (2) the name of a single registered attorney of a registered patent a listed, no name will	name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is no name will be printed.			
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing a	n assignment. ΓΥ and STATE OR	COUNT	TRY)	cument has been filed for up entity
Please check the appropr	rate assignee category or	categories (will not be pi	rinted on the patent):	Individual 🖵 C	orporat	on or other private gro	up entity Government
4a. The following fee(s) Issue Fee	are submitted:	41	b. Payment of Fee(s): (P A check is enclosed		iny prev	viously paid issue fee s	hown above)
	No small entity discount p	permitted)	Payment by credit card. Form PTO-2038 is attached.				
	# of Copies		☐ The Director is here		arge the	required fee(s), any def	iciency, or credit any extra copy of this form).
5. Change in Entity Sta	*	*	_				
**	as SMALL ENTITY state		b. Applicant is no l				R 1.27(g)(2). e assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.	ii tile applicant, a reg	gistereu	attorney of agent, of the	e assignee of other party in
Authorized Signature				Date			
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 dapplication form to the ions for reducing this bu. Firginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain of 1.14. This collection is to depending upon the included COMPLETED FORMS	or retain a benefit by estimated to take 12 dividual case. Any c icer, U.S. Patent and TO THIS ADDRES	the pub minute: comment I Trader SS. SEN	lic which is to file (and s to complete, including is on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/662,470	09/16/2003	Jan-Erik Ekberg	4208-4148 9617		
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Locke Lord Bisse	ell & Liddell LLP	HO, HUY C			
Attn: IP Docketing			ART UNIT	PAPER NUMBER	
Three World Financial Center New York, NY 10281-2101			2617 DATE MAILED: 04/03/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 736 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 736 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/662,470	EKBERG, JAN-ERIK	
Notice of Allowability	Examiner	Art Unit	
	HUY C. HO	2617	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet S (OR REMAINS) CLOSE of or other appropriate cor RIGHTS. This application	t with the correspondence address D in this application. If not included nmunication will be mailed in due course. TH	
1. This communication is responsive to <u>02/18/2009</u> .			
2. The allowed claim(s) is/are <u>2-11,13-22,24-30,32-34,36-38</u>	3 <u>,40,41 and 43-51</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority of a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have a copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the priority	re been received. re been received in Applic	eation No	e
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subr	MENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which gives 5. CORRECTED DRAWINGS (as "replacement sheets") must be considered by the constant of the	ves reason(s) why the oat		
(a) ☐ including changes required by the Notice of Draftspel	rson's Patent Drawing Re	view (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR)			
each sheet. Replacement sheet(s) should be labeled as such in			
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Intervie Paper 7. ☐ Examin	of Informal Patent Application w Summary (PTO-413), No./Mail Date er's Amendment/Comment er's Statement of Reasons for Allowance	
g	9. 🔲 Other _	.	
/Huy C Ho/ Examiner, Art Unit 2617	/Alexander Supervisory	Eisen/ Patent Examiner, Art Unit 2617	

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 2-11, 13-22, 24-30, 32-34, 36-38, 40, 41, and 43-51 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The prior art of record, i.e., Nidd (US 2002/0120750), Beck et at. (US 6,604,140), Hermann et at. (US 6,633,757) and Smith et at. (US 2003/0006911) in combination, neither teach nor suggest the claimed invention unique features, i.e., conducting an inquiry to discover at feast one nearby device in an ad-hoc network providing an inquiry response including bit codes, determining whether any of the inquiry responses received includes a modified bit codes as an indication that said at feast one nearby device may includes a middleware layer, said middleware layer comprising a middleware software for providing application and service discovery, in response to determining that a received inquiry response does not include the indication that said at feast one nearby device includes the middleware layer, disregarding the inquiry response, in response to determining that a receiving received inquiry response includes the indication that said at feast one nearby device includes a middleware layer, creating a wireless short-range connection to said at feast one nearby device and initiating wireless message exchange with said at feast one nearby device to conduct middleware-based application and service information exchange for determining whether at feast one target device supporting a required application or service is accessible in the ad-hoc network, the required application and service information including distributed information, wherein the distributed information includes: at feast one reference to a required service, an association between each reference and one of said at feast one target device, and state information about said at feast one target device, because: Nidd (US 2002/0120750), Beck et at. (US 6,604,140), Hermann et at. (US 6,633,757) and Smith et at. (US 2003/0006911) in combination neither teach conducting an inquiry to discover a nearby device in an ad hoc network providing an inquiry response including bit codes, determining whether any of the inquiry responses received includes a modified bit codes as an indication that said at feast one nearby

device may includes a middleware layer, where the middleware layer comprises a middleware software for providing application and service discovery, in response to determining that a received inquiry response does not include the indication that the nearby device includes the middleware layer, disregarding the inquiry response, in response to determining that a receiving received inquiry response includes the indication that the nearby device includes a middleware layer, creating a wireless short-range connection to the nearby device and initiating wireless message exchange with the nearby device to conduct middleware-based application and service information exchange in the ad-hoc network.

Therefore, claims 2-11, 13-22, 24-30, 32-34, 36-38, 40, 41, and 43-51 are deemed allowed.

Any comments considered necessary by applicant must be submitted no tater than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY C. HO whose telephone number is (571)270-1108. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alex V. Eisen can be reached on 571-272-7687. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 2617

/Huy C Ho/ Examiner, Art Unit 2617

/Alexander Eisen/

Supervisory Patent Examiner, Art Unit 2617